



Department of Engineering and Technology College of Science, Technology, Engineering, and Math (2025-26)

Suggested Curriculum Guide for Engineering Technology Management, B.S. (Manufacturing Concentration)

Freshman (1st Semester) 15 hrs

GSD 101- Foundations in Learning	3
AEM 195- Computer Aided Drafting	3
Ⓐ MAT 120 (or higher) (fulfills Gen. Ed. 2)- Trigonometry	3
TEC 161- Computer Applications in Technology	3
Gen. Ed. 1A (ENG 101)	3

Sophomore (1st Semester) 14 hrs

Ⓐ ECO 230 or Ⓐ 130 (fulfills Gen. Ed. 5B) or ACC 200- Fundamentals of Microeconomics or Contemporary Economic Problems or Survey of Accounting	3
Ⓐ PHY 131 (fulfills Gen. Ed. 4)- College Physics I	5
STA 215- Intro. to Statistical Reasoning	3
Gen. Ed. 1C (Comm)	3

Junior (1st Semester) 16 hrs

AEM 308- Methods of Lean Operations	3
AEM 310- Technical Communication	3
AEM 330- Material Testing and Metrology	3
AEM 349- Applied Learning in Industrial Technology	1
‡ AEM Technical Elective (upper division)	3
Gen. Ed. 3A (Arts)	3

Senior (1st Semester) 15 hrs

AEM 352- Robotics and Automated Systems	3
AEM 371- Hydraulics and Pneumatics	3
AEM 407 (fall only)- Fundamentals of Project Management	3
Free Elective	3
Gen. Ed. 3B Course 2	3

Freshman (2nd Semester) 16 hrs

AEM 390- 3-D Parametric Solid Modeling	3
Ⓐ CHE 101 or 111 (fulfills Gen. Ed. 4)- Introductory Chemistry or General Chemistry I	3
CHE 101L or 111L- Introductory Chemistry Lab or General Chemistry I Lab	1
EET 251- Electricity and Electronics	3
Gen. Ed. 1B (ENG 102)	3
AEM 201- Metallic Material Processes	3

Sophomore (2nd Semester) 15 hrs

AEM 202- Introduction to Quality	3
AEM 301 (spring only)- Non-Metallic Processes	3
‡ AEM Technical Elective	3
MAT 211 (or higher)- Applied Calculus	3
Gen. Ed. 5A (History)	3

Junior (2nd Semester) 15 hrs

AEM 332- Process Control and Auditing	3
CON 420- Engineering Economy	3
‡ AEM Technical Elective (upper division)	3
Gen. Ed. 3B (Humanities) Course 1	3
Free Elective (or Gen. Ed. 5B if ACC 200 taken)	3

Senior (2nd Semester) 14 hrs

AEM 408- Human Resource Development	3
AEM 467- Comprehensive Exam for BS in ETM	0
AEM 499 (ACCT) (spring only)- Senior Capstone Project	3
‡ AEM Technical Elective (upper division)	3
Gen. Ed. 5B Course 2	3
Free Elective	2

Ⓐ Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

UNIVERSITY GRADUATION REQUIREMENTS

39 hours

General Education

Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)

36 hours
3 hours

MAJOR REQUIREMENTS

Core Courses

34-38 hours

AEM 195, AEM 202, AEM 308, AEM 310, AEM 332, AEM 349, AEM 407, AEM 408, AEM 499, CON 420, STA 215, TEC 161

Concentration Requirements

33 hours

AEM 201, AEM 301, AEM 330, AEM 352, AEM 371, AEM 390, EET 251

‡ PLUS TWELVE (12) HOURS selected from the following technical electives (NINE (9) hours must be upper division):

AEM 336, AEM 382, AEM 383, AEM 392, AEM 395, AEM 397, AEM 506, AEM 530 or STA 585, CON 303, EET 252, EET 257, EET 351, NET 303, NET 440

Supporting Course Requirements

6-9 hours

Ⓐ CHE 101 and CHE 101L OR Ⓐ CHE 111 and CHE 111L, Ⓐ ECO 120 or GECO 230 or ACC 200, Ⓐ MAT 120, MAT 211, Ⓐ PHY 131

Free Electives

0-8 hours

Total Curriculum Requirements

120 hours